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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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THE FIRM OF HUESCHEN AND SAGE 500 COLUMBIA PLAZA 350 EAST MICHIGAN AVENUE KALAMAZOO, MI 49007			FORD, VANESSA L	
			ART UNIT	PAPER NUMBER
			1645	

DATE MAILED: 01/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/018,373

Applicant(s)

BIGALKE ET AL.

Examiner

Vanessa L. Ford

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 02 November 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 11-15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 11-15 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This Office Action is responsive to Applicant's amendments and response filed August 30, 2004 and November 2, 2004 are acknowledged. Claims 1-10 have been cancelled. Claim 11 has been amended. It should be noted that in the 103(a) rejection set forth on pages 8-10, paragraph 6 of the previous Office action should have been made over Goschel et al, (*Experimental Neurology*, 147, 1997, pages 96-102) in view of Keen et al (*Plastic and Reconstructive Surgery*, July 1994, 94, No.1, pages 94-99) and further in view of Borodic et al (*Ophthalmic Plastic and Reconstructive Surgery*, Vol. 9, No. 3, p. 182-190) and not Keen et al (*Plastic and Reconstructive Surgery*, July 1994, 94, No.1, pages 94-99) and further in view of (U.S. Patent No. 5,512,547 published April 30, 1996). The Offices apologizes for the oversight. Due to the oversight this Office action has been made Non-Final to give Applicant the opportunity to response to the correct rejection under 103(a).

2. The text of those sections of Title 35, U.S. Code not included in this action can be found in the prior Office Action.

Rejections Maintained

3. The rejection of claims 11-12 under 35 U.S.C. 103(a) is maintained for the reasons set forth on pages 3-5, paragraph 4 of the previous Office Action.

The rejection was on the grounds that Goschel et al teach a method of treating patients that have torticollis spasmodicus, facial dystonias, torsion dystonia and spasticity with injections of botulinum toxin A (pages 98-99 and Table 3, page 101).

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Goschel et al teach that among the patients treated were non-responders (patients that did not show improvement nor muscle weakness or atrophy after at least two successive treatments of neurotoxin). Goschel et al teach that neutralizing antibodies were found in the sera of all non-responders (patients that have developed neutralizing antibodies against botulinum toxin A) (pages 98-99). Goschel et al teach that neutralizing antibodies were the cause of therapeutic failure (page 101). Goschel et al teach that second generation botulinum neurotoxin preparations should be devoid of toxoid and should be purified from concomitant proteins, this will reduce the load of foreign substances that might lead to untoward reactions (page 102). Goschel et al do not teach a botulinum neurotoxin or mixture of two or more botulinum neurotoxins wherein the neurotoxin or mixture of neurotoxins is free of the complexing proteins which naturally form complexes with botulinum neurotoxins.

Goschel et al do not teach the use of a botulinum toxin other than botulinum toxin A.

Borodic et al teach compositions comprising botulinum toxin B as an alternative to botulinum toxin A (see the Title). Borodic et al teach that the repeated injections of botulinum toxin A leads to lack of effectiveness and sensitivity to botulinum toxin A (pages 182-183). Borodic et al teach that neutralizing antibodies to botulinum toxin A have been demonstrated using immunoassays (page 182). Borodic et al suggest that because botulinum toxin B is immunologically distinct from botulinum toxin A it may have differing biologic effects at the cellular level and may also be useful as adjuvant therapy for patients resistant or refractory to botulinum A toxin (page 189).

It would be *prima facie* obvious at the time the invention was made to treat patients having cosmetic conditions, wherein the patient exhibits neutralizing antibodies against botulinum toxin A with botulinum toxin B because Borodic et al teach compositions comprising botulinum toxin B, which is immunologically distinct from botulinum toxin A and botulinum toxin B may have differing biologic effects at the cellular level and may also be useful as adjuvant therapy for patients resistant or refractory to botulinum A toxin. It would be expected barring evidence to the contrary, that botulinum toxin B preparation would be effective in treating cosmetic conditions because botulinum toxin B is immunologically distinct from A but has been demonstrated to have therapeutic effects similar to botulinum toxin A.

Applicant urges that Goschel do not teach or suggest a botulinum toxin free of complexing proteins which naturally form complexes with botulinum toxin for the treatment of patients already exhibiting neutralizing antibodies to a known botulinum serotype. Applicant asserts that the Office basis for rejection under obviousness is improper because all claim limitations are not met by the combination of reference

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used to formulated the rejection. Applicant urges that the Office asserts that Borodic et al teach botulinum toxin serotype B which is an alternative for botulinum toxin serotype A when patients have developed neutralizing antibodies to serotype A.

Applicant's arguments filed November 2, 2004 have been fully considered but they are not persuasive. In response to applicant's argument that the obviousness rejection is improper, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, Goschel et al makes the suggestion that botulinum toxin preparations should be purified from concomitant proteins, thereby reducing the load of foreign substances that might lead to untoward reactions (page 102). Goschel et al do not teach any other serotype of botulinum toxin besides serotype A. Borodic et al teach that botulinum toxin B can be used as an alternative to A because many patients have developed neutralizing antibodies to serotype A. One would be motivated to treat a patient that has developed neutralizing antibodies to serotype A because Borodic et al teach compositions comprising botulinum toxin B, which is immunologically distinct from botulinum toxin A and botulinum toxin B may have differing biologic effects at the cellular level and may also be useful as adjuvant therapy for patients resistant or refractory to botulinum A

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toxin. There is nothing on the record to suggest that the combination of references do not teach the claimed method.

4. The rejection of claims 11-13 under 35 U.S.C. 103(a) is maintained for the reasons set forth on pages 5-7, paragraph 5 of the previous Office Action.

The rejection was on the grounds that Goschel et al teach a method of using botulinum toxin to treat patients having torticollis spasmodicus, facial dystonias, torsion dystonia and spasticity patients (pages 98-99 and Table 3, page 101). Goschel et al also teach patients that have developed neutralizing antibodies against botulinum toxin A (pages 98-99 and Table 3, page 101). Goschel et al teach that neutralizing antibodies were the cause of therapeutic failure (page 101). Goschel et al teach that second generation botulinum neurotoxin preparations should be devoid of toxoid and should be purified from concomitant proteins, this will reduce the load of foreign substances that might lead to untoward reactions (page 102).

Goschel et al do not teach the cosmetic condition, hyperhidrosis.

Shelley et al teach a method of treating patients that have hyperhidrosis with botulinum toxin A (page 228). Shelley et al teach that treatment with botulinum toxin A abolished hyperhidrosis one week after treatment (page 228). Shelley et al teach that BOTOX (botulinum toxin A) is a safe and effective treatment for hyperhidrosis (227).

Goschel et al and Shelley et al do not teach a composition that comprises a botulinum toxin other than botulinum A.

Borodic et al teach compositions comprising botulinum toxin B as an alternative to botulinum toxin A (see the Title). Borodic et al teach that the repeated injections of botulinum toxin A leads to lack of effectiveness and sensitivity to botulinum toxin A (pages 182-183). Borodic et al teach that neutralizing antibodies to botulinum toxin A have been demonstrated using immunoassays (page 182). Borodic et al suggest that because botulinum toxin B is immunologically distinct from botulinum toxin A it may have differing biologic effects at the cellular level and may also be useful as adjuvant therapy for patients resistant or refractory to botulinum A toxin (page 189).

It would be *prima facie* obvious at the time the invention was made to use the botulinum toxin B as taught by Borodic et al in the method of treating patients with hyperhidrosis that have developed neutralizing antibodies against botulinum toxin complexes of Goschel et al and Shelley et al combined because Borodic et al teach that botulinum neurotoxin B can be used as an alternative to botulinum toxin A to treat cosmetic disorders (i.e. hemifacial spasm) and Shelley et al has demonstrated that botulinum toxin A is effective in treating cosmetic disorders (i.e. hyperhidrosis). It would be expected barring evidence to the contrary, that a botulinum toxin B preparation would be effective in treating patients with hyperhidrosis since Borodic et al teach that

botulinum toxin B is immunologically distinct from botulinum toxin A and may be useful as adjuvant therapy for patients resistant or refractory to botulinum A toxin (page 189).

Applicant urges that Goschel do not teach or suggest a botulinum toxin free of complexing proteins which naturally form complexes with botulinum toxin for the treatment of patients already exhibiting neutralizing antibodies to a known botulinum serotype. Applicant asserts that the Office basis for rejection under obviousness is improper because all claim limitations are not met by the combination of reference used to formulate the rejection. Applicant urges that the Office asserts that Borodic et al teach botulinum toxin serotype B which is an alternative for botulinum toxin serotype A when patients have developed neutralizing antibodies to serotype A. Applicant urges that Shelley et al teach a method of treating patients with hyperhidrosis using botulinum toxin A therapy.

Applicant's arguments filed November 2, 2004 have been fully considered but they are not persuasive. In response to applicant's argument that the obviousness rejection is improper, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, Goschel et al makes the suggestion that botulinum toxin preparations should be purified from concomitant proteins, thereby reducing the load of foreign substances that might lead to untoward reactions (page 102). Goschel et al do not teach any other serotype of

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botulinum toxin besides serotype A. Borodic et al teach that botulinum toxin B can be used as an alternative to A because many patients have developed neutralizing antibodies to serotype A. Goschel et al and Borodic et al do not teach hyperhidrosis. However, Shelley et al teach that botulinum serotype A can be used to treat hyperhidrosis. One would be motivated to treat patients having hyperhidrosis that have developed neutralizing antibodies to serotype A with serotype B because Borodic et al teach compositions comprising botulinum toxin B, which is immunologically distinct from botulinum toxin A and botulinum toxin B may have differing biologic effects at the cellular level and may also be useful as adjuvant therapy for patients resistant or refractory to botulinum A toxin. There is nothing on the record to suggest that the combination of references do not teach the claimed method.

5. The rejection of claims 11-12 and 14-15 under 35 U.S.C. 103(a) as unpatentable over Goschel et al, (*Experimental Neurology*, 147, 1997, pages 96-102) in view of Keen et al (*Plastic and Reconstructive Surgery*, July 1994, 94, No.1, pages 94-99) and further in view of Borodic et al (*Ophthalmic Plastic and Reconstructive Surgery*, Vol. 9, No. 3, p. 182-190) is maintained for the reasons set forth on pages 8-10, paragraph 6 of the previous Office Action.

The rejection was on the grounds that Goschel et al teach a method of using botulinum toxin to treat patients having torticollis spasmodicus, facial dystonias, torsion dystonia and spasticity patients (pages 98-99 and Table 3, page 101). Goschel et al also teach patients that have developed neutralizing antibodies against botulinum toxin A (pages 98-99 and Table 3, page 101). Goschel et al teach that neutralizing antibodies were the cause of therapeutic failure (page 101). Goschel et al teach that second generation botulinum neurotoxin preparations should be devoid of toxoid and

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should be purified from concomitant proteins, this will reduce the load of foreign substances that might lead to untoward reactions (page 102).

Goschel et al do not teach the cosmetic condition, facial wrinkling.

Keen et al teach a method of treating patients that have hyperkinetic facial lines (wrinkles) with injections of botulinum toxin A (see the Abstract and pages 95-97). Keen et al teach that botulinum toxin A injections eliminated hyperfunctional facial lines (wrinkles) in healthy aesthetic surgical patients (page 94). Keen et al teach that antibodies to botulinum toxin A have been described in patients receiving much larger dosages of botulinum for long periods of time and the antibodies can render the toxin non-effective but do not harm the patient. Keen et al teach that the use of botulinum toxin A is a safe and efficacious method of nonsurgically eliminating facial wrinkles in aesthetic surgical patients for a period of 4 to 6 months (page 99).

Goschel et al and Keen et al do not teach a composition comprising a botulinum neurotoxin other than botulinum toxin A.

Borodic et al teach compositions comprising botulinum toxin B as an alternative to botulinum toxin A (see the Title). Borodic et al teach that the repeated injections of botulinum toxin A leads to lack of effectiveness and sensitivity to botulinum toxin A (pages 182-183). Borodic et al teach that neutralizing antibodies to botulinum toxin A have been demonstrated using immunoassays (page 182). Borodic et al suggest that because botulinum toxin B is immunologically distinct from botulinum toxin A it may have differing biologic effects at the cellular level and may also be useful as adjuvant therapy for patients resistant or refractory to botulinum A toxin (page 189).

It would be *prima facie* obvious at the time the invention was made to use the botulinum toxin B as taught by Borodic et al in the method of treating patients with facial wrinkling that have developed neutralizing antibodies against botulinum toxin complexes of Goschel et al and Keen et al combined because Borodic et al teach that botulinum neurotoxin B can be used as an alternative to botulinum toxin A to treat cosmetic disorders (i.e. hemifacial spasm) and Keen et al has demonstrated that botulinum toxin A is effective in treating facial wrinkles. It would be expected barring evidence to the contrary, that a botulinum toxin B preparation would be effective in treating patients with facial wrinkling since Borodic et al teach that botulinum toxin B is immunologically distinct from botulinum toxin A and is useful as adjuvant therapy for patients resistant or refractory to botulinum A toxin (page 189).

Applicant urges that that Goschel do not teach or suggest a botulinum toxin free of complexing proteins which naturally form complexes with botulinum toxin for the treatment of patients already exhibiting neutralizing antibodies to a known botulinum serotype. Applicant asserts that the Office basis for rejection under obviousness is improper because all claim limitations are not met by the combination of reference

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used to formulate the rejection. Applicant urges that Keen et al teach a method of treating patients with hyperkinetic facial lines (wrinkles) using botulinum A therapy.

Applicant's arguments filed November 2, 2004 have been fully considered but they are not persuasive. In response to applicant's argument that the obviousness rejection is improper, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, Goschel et al makes the suggestion that botulinum toxin preparations should be purified from concomitant proteins, thereby reducing the load of foreign substances that might lead to untoward reactions (page 102). Goschel et al do not teach any other serotype of botulinum toxin besides serotype A. Borodic et al teach that botulinum toxin B can be used as an alternative to A because many patients have developed neutralizing antibodies to serotype A. Goschel et al and Borodic et al do not teach patients having facial wrinkles. However, Keen et al teach a method of treating patients with hyperkinetic facial lines (wrinkles) using botulinum A therapy. One would be motivated to treat patients having facial wrinkles that have developed neutralizing antibodies to serotype A with serotype B because Borodic et al teach compositions comprising botulinum toxin B, which is immunologically distinct from botulinum toxin A and botulinum toxin B may have differing biologic effects at the cellular level and may also

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be useful as adjuvant therapy for patients resistant or refractory to botulinum A toxin.

There is nothing on the record to suggest that the combination of references do not teach the claimed method.

6. The rejection of claims 11-12 under 35 U.S.C. 103(a) is maintained for the reasons set forth on pages 10-12, paragraph 7 of the previous Office Action.

The rejection was on the grounds that Goschel et al teach a method of using botulinum toxin to treat patients having torticollis spasmodicus, facial dystonias, torsion dystonia and spasticity patients (pages 98-99 and Table 3, page 101). Goschel et al also teach patients that have developed neutralizing antibodies against botulinum toxin A (pages 98-99 and Table 3, page 101). Goschel et al teach that neutralizing antibodies were the cause of therapeutic failure (page 101). Goschel et al teach that second generation botulinum neurotoxin preparations should be devoid of toxoid and should be purified from concomitant proteins, this will reduce the load of foreign substances that might lead to untoward reactions (page 102).

Goschel et al do not teach a composition comprising a botulinum neurotoxin other than botulinum toxin A.

Borodic et al teach compositions comprising botulinum toxin B as an alternative to botulinum toxin A (see the Title). Borodic et al teach that the repeated injections of botulinum toxin A leads to lack of effectiveness and sensitivity to botulinum toxin A (pages 182-183). Borodic et al teach that neutralizing antibodies to botulinum toxin A have been demonstrated using immunoassays (page 182). Borodic et al suggest that because botulinum toxin B is immunologically distinct from botulinum toxin A it may have differing biologic effects at the cellular level and may also be useful as adjuvant therapy for patients resistant or refractory to botulinum A toxin (page 189).

The combination of Goschel et al and Borodic et al as set forth above differs by not teaching the combination of more than 2 or all botulinum neurotoxins.

Jankovic et al teach the therapeutic uses of botulinum toxin (see entire article). Jankovic et al teach that botulinum toxin can be used to treat cosmetic conditions (i.e. hemifacial spasms)(page 1191). Jankovic et al teach that seven immunologically distinct botulinum toxins have been identified (i.e. botulinum toxin serotypes A-G) (page 1188). Jankovic et al suggest that patients with antibodies against botulinum toxin will respond to injections with other botulinum toxins that are immunologically distinct from A.

It would have been *prima facie* obvious to one having ordinary skill in the art at the time the invention was made to add any one of or all of the C, D, E, F or G botulinum toxins to the composition comprising "botulinum toxin B" neurotoxin combination of Goschel et al and Borodic et al as combined above because Jankovic et al that suggest that patients with antibodies against botulinum toxin will respond to

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injections with other botulinum toxins that are immunologically distinct from A and the addition of any or all of these neurotoxins would be readily expected to work given that botulinum toxin B has been individually shown to be effective for the treatment of cosmetic disorders.

Applicant urges that Goschel do not teach or suggest a botulinum toxin free of complexing proteins which naturally form complexes with botulinum toxin for the treatment of patients already exhibiting neutralizing antibodies to a known botulinum serotype. Applicant asserts that the Office basis for rejection under obviousness is improper because all claim limitations are not met by the combination of reference used to formulate the rejection. Applicant urges that the Office asserts that Borodic et al teach botulinum toxin serotype B which is an alternative for botulinum toxin serotype A when patients have developed neutralizing antibodies to serotype A. Applicant urges that Jankovic et al teach the substitution of other known botulinum toxin serotypes and not botulinum toxin free of complexing proteins.

Applicant's arguments filed November 2, 2004 have been fully considered but they are not persuasive. In response to applicant's argument that the obviousness rejection is improper, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, Goschel et al makes the suggestion that botulinum toxin preparations should be purified from

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concomitant proteins, thereby reducing the load of foreign substances that might lead to untoward reactions (page 102). Goschel et al do not teach any other serotype of botulinum toxin besides serotype A. Borodic et al teach that botulinum toxin B can be used as an alternative to A because many patients have developed neutralizing antibodies to serotype A. Jankovic et al suggest that other known serotypes (B, C, D, E, F or G) can be substituted in therapies using botulinum toxin serotype A when patients have developed neutralizing antibodies against serotype A. One would be motivated to use other botulinum toxin serotypes other than A such as serotype B as taught by Borodic et al when patients have developed neutralizing antibodies to serotype A because Borodic et al teach that serotype B is immunologically distinct from botulinum toxin A and botulinum toxin B may have differing biologic effects at the cellular level and may also be useful as adjuvant therapy for patients resistant or refractory to botulinum A toxin. Additionally, Jankovic et al suggest that other known serotypes can be substituted in therapies using botulinum toxin serotype A when patients have developed neutralizing antibodies against serotype A. There is nothing on the record to suggest that the combination of references do not teach the claimed method.

Status of Claims

7. No claims allowed.

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8. Any inquiry of the general nature or relating to the status of this general application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

Papers relating to this application may be submitted to Technology Center 1600, Group 1640 by facsimile transmission. The faxing of such papers must conform with the notice published in the Office Gazette, 1096 OG 30 (November 15, 1989). Should applicant wish to FAX a response, the current FAX number for the Group 1600 is (703) 872-9306.

Any inquiry concerning this communication from the examiner should be directed to Vanessa L. Ford, whose telephone number is (571) 272-0857. The examiner can normally be reached on Monday – Friday from 9:00 AM to 6:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynette Smith, can be reached at (571) 272-0864.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see [<http://pair-direct.uspto.gov./>](http://pair-direct.uspto.gov./). Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Vanessa L. Ford
Biotechnology Patent Examiner
January 18, 2005

Patricia A. Duffy
PATRICIA A. DUFFY
PRIMARY EXAMINER